

EXPRESS MAIL NO.: EL692235828US

|   |                           |                     |
|---|---------------------------|---------------------|
| <b>DECLARATION AND POWER<br/>OF ATTORNEY FOR UTILITY<br/>OR DESIGN</b><br><br><b>PATENT APPLICATION</b><br><br><input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Declaration<br>Submitted with      Submitted after Initial<br>Initial Filing      Filing (surcharge<br>37 CFR 1.16(e) required) | Attorney Docket No.       | MIT-087             |
|   | First Named Inventor      | Robert D. Rosenberg |
|   | <b>COMPLETE IF KNOWN</b>  |                     |
|   | Application Serial Number | 09/557,262          |
|   | Filing Date               | April 24, 2000      |
|   | Group Art Unit            | Not yet assigned    |
| Examiner Name   | Not yet assigned          |                     |

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES, AND USES THEREFOR

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (04/24/2000) as United States Application Serial Number

Application Number 09/557,262 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application<br>Number | Country | Foreign Filing Date<br>(MM/DD/YYYY) | Priority<br>Not Claimed  | Certified Copy Attached? |                          |
|-------------------------------------|---------|-------------------------------------|--------------------------|--------------------------|--------------------------|
|                                     |         |                                     |                          | YES                      | NO                       |
| PCT/US98/22597                      | WO      | 10/23/1998                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

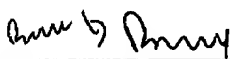
☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Serial Numbers | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application<br>serial numbers are listed on a<br>supplemental priority data sheet<br>attached hereto. |
|----------------------------|--------------------------|---|
| 60/062,762                 | 10/24/1997               |   |
| 60/065,437                 | 10/31/1997               |   |

| <b>DECLARATION – Utility or Design Patent Application</b>   |  |  |                                |
|---|--|--|--------------------------------|
| I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. |  |  |                                |
| <b>U.S. Parent Application or PCT Parent<br/>Serial Number</b>  | <b>Parent Filing Date<br/>(MM/DD/YYYY)</b> | <b>Parent Patent Number<br/>(if applicable)</b>  |                                |
|   |  |  |                                |
| <input type="checkbox"/> Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.   |  |  |                                |
| As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:   |  |  |                                |
| <input type="checkbox"/> Customer Number  |  | <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div>   | →                              |
| OR  |  | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Place Customer<br/>Number Bar Code<br/>Label Here </div> |                                |
| <input checked="" type="checkbox"/> Registered practitioner(s) name/registration number listed below  |  |  |                                |
| <b>Name</b>   | <b>Registration<br/>Number</b>             | <b>Name</b>  | <b>Registration<br/>Number</b> |
| Steven M. Bauer   | 31,481                                     | Thomas C. Meyers   | 36,989                         |
| John V. Bianco  | 36,748                                     | Joseph B. Milstein   | 42,897                         |
| Isabelle A.S. Blundell  | 43,321                                     | David G. Miranda   | 42,898                         |
| Maureen A. Bresnahan  | 44,559                                     | Ronda P. Moore   | 44,244                         |
| Michael H. Brodowski  | 41,640                                     | Indranil Mukerji   | P-46,944                       |
| Jennifer A. Camacho   | 43,526                                     | Edmund R. Pitcher  | 27,829                         |
| Joseph A. Capraro, Jr.  | 36,471                                     | Dianne M. Rees   | 45,281                         |
| John J. Cotter  | 38,116                                     | Michael A. Rodriguez   | 41,274                         |
| John V. Forcier   | 42,545                                     | Jamie H. Rose  | 45,054                         |
| Brian M. Gaff   | 44,691                                     | R. Stephen Rosenholm   | 45,283                         |
| Michael J. Giannetta  | 42,574                                     | Christopher W. Stamos  | 35,370                         |
| Duncan A. Greenhalgh  | 38,678                                     | Joseph P. Sullivan   | 45,349                         |
| William G. Guerin   | 41,047                                     | Robert J. Tosti  | 35,393                         |
| Jonathan A. Harris  | 44,744                                     | Thomas A. Turano   | 35,722                         |
| Ira V. Heffan   | 41,059                                     | Michael J. Twomey  | 38,349                         |
| Danielle L. Herritt   | 43,670                                     | Christine C. Vito  | 39,061                         |
| Mi Kim  | 44,830                                     | Patrick R.H. Waller  | 41,418                         |
| Douglas J. Kline  | 35,574                                     | Daniel A. Wilson   | 45,508                         |
| John D. Lanza   | 40,060                                     | Yin P. Zhang   | 44,372                         |
| Kurt W. Lockwood  | 40,704                                     |  |                                |
| <input type="checkbox"/> Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.   |  |  |                                |
| Direct all correspondence to:   |  |  |                                |
| Patent Administrator<br>Testa, Hurwitz & Thibault, LLP<br>High Street Tower<br>125 High Street<br>Boston, MA 02110<br>Tel. No.: (617) 248-7000<br>Fax No.: (617) 248-7100   |  |  |                                |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

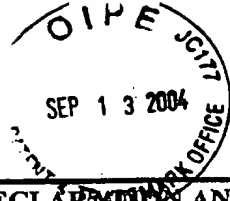
|  |   |   |       |                        |         |       |             |          |
|--|---|---|-------|------------------------|---------|-------|-------------|----------|
| Name of Sole or First Inventor:  |   | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |          |
| Given Name (first and middle [if any])   |   |   |       | Family Name or Surname |         |       |             |          |
| Robert D.  |   |   |       | Rosenberg              |         |       |             |          |
| Inventor's Signature   |  |   |       |                        |         | Date  | 9/3/00      |          |
| Residence  | City  | Boston  | State | MA                     | Country | USA   | Citizenship | USA      |
| Post Office Address  | 28 Commonwealth Avenue, #3  |   |       |                        |         |       |             |          |
| P.O. Address (line 2)  | City  | Boston  | State | MA                     | ZIP     | 02116 | Country     | USA      |
| <input checked="" type="checkbox"/> Additional inventors are being named on the supplemental Additional Inventors sheet attached hereto. |   |   |       |                        |         |       |             |          |
| Name of Additional Joint Inventor, if any:   |   | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |          |
| Given Name (first and middle [if any])   |   |   |       | Family Name or Surname |         |       |             |          |
| Nicholas W.  |   |   |       | Shworak                |         |       |             |          |
| Inventor's Signature   |   |   |       |                        |         | Date  |             |          |
| Residence  | City  | Westwood  | State | MA                     | Country | USA   | Citizenship | Canadian |
| Post Office Address  | 9 Wicklow Drive   |   |       |                        |         |       |             |          |
| P.O. Address (line 2)  | City  | Westwood  | State | MA                     | ZIP     | 02090 | Country     | Canadian |
| Name of Additional Joint Inventor, if any:   |   | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |          |
| Given Name (first and middle [if any])   |   |   |       | Family Name or Surname |         |       |             |          |
| Jian   |   |   |       | Liu                    |         |       |             |          |
| Inventor's Signature   |   |   |       |                        |         | Date  |             |          |
| Residence  | City  | Chapel Hill   | State | NC                     | Country | USA   | Citizenship | China    |
| Post Office Address  | 106 Ivy Brook Lane  |   |       |                        |         |       |             |          |
| P.O. Address (line 2)  | City  | Chapel Hill   | State | NC                     | ZIP     | 27516 | Country     | USA      |



Additional Inventors for "HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES,  
AND USES THEREFOR"

|   |  |
|---|--|
| <b>DECLARATION AND<br/>POWER OF ATTORNEY FOR UTILITY<br/>OR DESIGN PATENT APPLICATION</b> | <b>ADDITIONAL INVENTOR(S)<br/>Supplemental Sheet<br/>Page 1 of 1</b> |
|---|--|

|  |      |   |       |                        |         |       |             |     |
|--|------|---|-------|------------------------|---------|-------|-------------|-----|
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle [if any])     |      |   |       | Family Name or Surname |         |       |             |     |
| Linda M.S.                                 |      |   |       | Fritze                 |         |       |             |     |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |     |
| Residence                                  | City | Sharon  | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address                        |      | 15 Falcon Road  |       |                        |         |       |             |     |
| P.O. Address (line 2)                      | City | Sharon  | State | MA                     | ZIP     | 02067 | Country     | USA |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle [if any])     |      |   |       | Family Name or Surname |         |       |             |     |
| John J.                                    |      |   |       | Schwartz               |         |       |             |     |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |     |
| Residence                                  | City | Newtonville   | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address                        |      | 200 Upland Road   |       |                        |         |       |             |     |
| P.O. Address (line 2)                      | City | Newtonville   | State | MA                     | ZIP     | 02460 | Country     | USA |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle [if any])     |      |   |       | Family Name or Surname |         |       |             |     |
| Lijuan                                     |      |   |       | Zhang                  |         |       |             |     |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |     |
| Residence                                  | City | Winthrop  | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address                        |      | 900 Governor's Drive, #25   |       |                        |         |       |             |     |
| P.O. Address (line 2)                      | City | Winthrop  | State | MA                     | ZIP     | 02152 | Country     | USA |



EXPRESS IL NO.: EL692235828US

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| <b>DECLARATION AND POWER<br/>OF ATTORNEY FOR UTILITY<br/>OR DESIGN</b><br><br><b>PATENT APPLICATION</b><br><br><input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Declaration<br>Submitted with      Submitted after Initial<br>Initial Filing      Filing (surcharge<br>37 CFR 1.16(e) required) | Attorney Docket No.       | MIT-087             |
|   | First Named Inventor      | Robert D. Rosenberg |
|   | <b>COMPLETE IF KNOWN</b>  |                     |
|   | Application Serial Number | 09/557,262          |
|   | Filing Date               | April 24, 2000      |
|   | Group Art Unit            | Not yet assigned    |
| Examiner Name   | Not yet assigned          |                     |

As a below named inventor, I hereby declare that:

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(Title of the Invention)

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☐ is attached hereto

OR

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| Prior Foreign Application<br>Number | Country | Foreign Filing Date<br>(MM/DD/YYYY) | Priority<br>Not Claimed  | Certified Copy Attached?   |  |
|-------------------------------------|---------|-------------------------------------|--|--|--|
|                                     |         |                                     |  | YES  | NO   |
| PCT/US98/22597                      | WO      | 10/23/1998                          | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Serial Numbers | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto. |
|----------------------------|--------------------------|--|
| 60/062,762                 | 10/24/1997               |  |
| 60/065,437                 | 10/31/1997               |  |

## Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/557,262

Page 2 of 4

**DECLARATION – Utility or Design Patent Application**

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application or PCT Parent<br>Serial Number | Parent Filing Date<br>(MM/DD/YYYY) | Parent Patent Number<br>(if applicable) |
|--|------------------------------------|---|
|  |                                    |   |

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number  → Place Customer  
Number Bar Code  
Label Here

OR

☒ Registered practitioner(s) name/registration number listed below

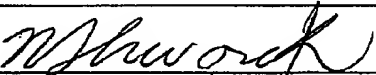
| Name                   | Registration<br>Number | Name                  | Registration<br>Number |
|------------------------|------------------------|-----------------------|------------------------|
| Steven M. Bauer        | 31,481                 | Thomas C. Meyers      | 36,989                 |
| John V. Bianco         | 36,748                 | Joseph B. Milstein    | 42,897                 |
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| Maureen A. Bresnahan   | 44,559                 | Ronda P. Moore        | 44,244                 |
| Michael H. Brodowski   | 41,640                 | Indranil Mukerji      | P-46,944               |
| Jennifer A. Camacho    | 43,526                 | Edmund R. Pitcher     | 27,829                 |
| Joseph A. Capraro, Jr. | 36,471                 | Dianne M. Rees        | 45,281                 |
| John J. Cotter         | 38,116                 | Michael A. Rodriguez  | 41,274                 |
| John V. Forcier        | 42,545                 | Jamie H. Rose         | 45,054                 |
| Brian M. Gaff          | 44,691                 | R. Stephen Rosenholm  | 45,283                 |
| Michael J. Giannetta   | 42,574                 | Christopher W. Stamos | 35,370                 |
| Duncan A. Greenhalgh   | 38,678                 | Joseph P. Sullivan    | 45,349                 |
| William G. Guerin      | 41,047                 | Robert J. Tosti       | 35,393                 |
| Jonathan A. Harris     | 44,744                 | Thomas A. Turano      | 35,722                 |
| Ira V. Heffan          | 41,059                 | Michael J. Twomey     | 38,349                 |
| Danielle L. Herritt    | 43,670                 | Christine C. Vito     | 39,061                 |
| Mi Kim                 | 44,830                 | Patrick R.H. Waller   | 41,418                 |
| Douglas J. Kline       | 35,574                 | Daniel A. Wilson      | 45,508                 |
| John D. Lanza          | 40,060                 | Yin P. Zhang          | 44,372                 |
| Kurt W. Lockwood       | 40,704                 |                       |                        |

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
125 High Street  
Boston, MA 02110  
Tel. No.: (617) 248-7000  
Fax No.: (617) 248-7100

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |      |   |       |    |                        |       |             |          |        |  |
|--|------|---|-------|----|------------------------|-------|-------------|----------|--------|--|
| Name of Sole or First Inventor:  |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor     |       |    |                        |       |             |          |        |  |
| Given Name (first and middle [if any])   |      |   |       |    | Family Name or Surname |       |             |          |        |  |
| Robert D.  |      |   |       |    | Rosenberg              |       |             |          |        |  |
| Inventor's Signature   |      |   |       |    |                        |       | Date        |          |        |  |
| Residence  | City | Boston  | State | MA | Country                | USA   | Citizenship | USA      |        |  |
| Post Office Address  |      | 28 Commonwealth Avenue, #3  |       |    |                        |       |             |          |        |  |
| P.O. Address (line 2)  | City | Boston  | State | MA | ZIP                    | 02116 | Country     | USA      |        |  |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 1 supplemental Additional Inventors sheet attached hereto. |      |   |       |    |                        |       |             |          |        |  |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor     |       |    |                        |       |             |          |        |  |
| Given Name (first and middle [if any])   |      |   |       |    | Family Name or Surname |       |             |          |        |  |
| Nicholas W.  |      |   |       |    | Shworak                |       |             |          |        |  |
| Inventor's Signature   |      |  |       |    |                        |       | Date        |          | 7/2/02 |  |
| Residence  | City | Westwood  | State | MA | Country                | USA   | Citizenship | Canadian |        |  |
| Post Office Address  |      | 9 Wicklow Drive   |       |    |                        |       |             |          |        |  |
| P.O. Address (line 2)  | City | Westwood  | State | MA | ZIP                    | 02090 | Country     | Canadian |        |  |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor     |       |    |                        |       |             |          |        |  |
| Given Name (first and middle [if any])   |      |   |       |    | Family Name or Surname |       |             |          |        |  |
| Jian   |      |   |       |    | Liu                    |       |             |          |        |  |
| Inventor's Signature   |      |   |       |    |                        |       | Date        |          |        |  |
| Residence  | City | Chapel Hill   | State | NC | Country                | USA   | Citizenship | China    |        |  |
| Post Office Address  |      | 106 Ivy Brook Lane  |       |    |                        |       |             |          |        |  |
| P.O. Address (line 2)  | City | Chapel Hill   | State | NC | ZIP                    | 27516 | Country     | USA      |        |  |

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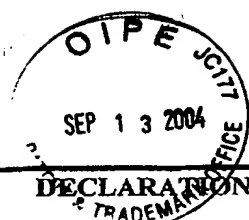
Additional Inventors for "HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES,  
AND USES THEREFOR"

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| <b>DECLARATION AND<br/> POWER OF ATTORNEY FOR UTILITY<br/> OR DESIGN PATENT APPLICATION</b> | <b>ADDITIONAL INVENTOR(S)<br/> Supplemental Sheet<br/> Page 1 of 1</b> |
|---|--|

|  |      |   |             |       |                        |     |             |         |  |     |
|--|------|---|-------------|-------|------------------------|-----|-------------|---------|--|-----|
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |             |       |                        |     |             |         |  |     |
| Given Name (first and middle [if any])     |      |   |             |       | Family Name or Surname |     |             |         |  |     |
| Linda M.S.                                 |      |   |             |       | Fritze                 |     |             |         |  |     |
| Inventor's Signature                       |      |   |             |       |                        |     | Date        |         |  |     |
| Residence                                  | City | Sharon  | State       | MA    | Country                | USA | Citizenship | USA     |  |     |
| Post Office Address                        |      | 15 Falcon Road  |             |       |                        |     |             |         |  |     |
| P.O. Address (line 2)                      |      | City  | Sharon      | State | MA                     | ZIP | 02067       | Country |  | USA |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |             |       |                        |     |             |         |  |     |
| Given Name (first and middle [if any])     |      |   |             |       | Family Name or Surname |     |             |         |  |     |
| John J.                                    |      |   |             |       | Schwartz               |     |             |         |  |     |
| Inventor's Signature                       |      |   |             |       |                        |     | Date        |         |  |     |
| Residence                                  | City | Newtonville   | State       | MA    | Country                | USA | Citizenship | USA     |  |     |
| Post Office Address                        |      | 200 Upland Road   |             |       |                        |     |             |         |  |     |
| P.O. Address (line 2)                      |      | City  | Newtonville | State | MA                     | ZIP | 02460       | Country |  | USA |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |             |       |                        |     |             |         |  |     |
| Given Name (first and middle [if any])     |      |   |             |       | Family Name or Surname |     |             |         |  |     |
| Lijuan                                     |      |   |             |       | Zhang                  |     |             |         |  |     |
| Inventor's Signature                       |      |   |             |       |                        |     | Date        |         |  |     |
| Residence                                  | City | Winthrop  | State       | MA    | Country                | USA | Citizenship | USA     |  |     |
| Post Office Address                        |      | 900 Governor's Drive, #25   |             |       |                        |     |             |         |  |     |
| P.O. Address (line 2)                      |      | City  | Winthrop    | State | MA                     | ZIP | 02152       | Country |  | USA |

BRESNAHA5473/91.1011785-1





EXPRESS MAIL NO.. EL692235828US

|   |                           |                     |
|---|---------------------------|---------------------|
| <b>DECLARATION AND POWER<br/>OF ATTORNEY FOR UTILITY<br/>OR DESIGN</b><br><br><b>PATENT APPLICATION</b><br><br><input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Declaration<br>Submitted with      Submitted after Initial<br>Initial Filing      Filing (surcharge<br>37 CFR 1.16(e) required) | Attorney Docket No.       | MIT-087             |
|   | First Named Inventor      | Robert D. Rosenberg |
|   | <b>COMPLETE IF KNOWN</b>  |                     |
|   | Application Serial Number | 09/557,262          |
|   | Filing Date               | April 24, 2000      |
|   | Group Art Unit            | Not yet assigned    |
|   | Examiner Name             | Not yet assigned    |

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES, AND USES THEREFOR

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (04/24/2000) as United States Application Serial Number

Application Number 09/557,262 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application<br>Number | Country | Foreign Filing Date<br>(MM/DD/YYYY) | Priority<br>Not Claimed  | Certified Copy Attached?   |  |
|-------------------------------------|---------|-------------------------------------|--|--|--|
|                                     |         |                                     |  | YES  | NO   |
| PCT/US98/22597                      | WO      | 10/23/1998                          | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Serial Numbers | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto. |
|----------------------------|--------------------------|--|
| 60/062,762                 | 10/24/1997               |  |
| 60/065,437                 | 10/31/1997               |  |

## DECLARATION – Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application or PCT Parent<br>Serial Number | Parent Filing Date<br>(MM/DD/YYYY) | Parent Patent Number<br>(if applicable) |
|--|------------------------------------|---|
|  |                                    |   |

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number   → Place Customer Number Bar Code Label Here

OR

☒ Registered practitioner(s) name/registration number listed below

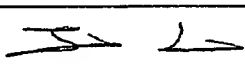
| Name                   | Registration Number | Name                  | Registration Number |
|------------------------|---------------------|-----------------------|---------------------|
| Steven M. Bauer        | 31,481              | Thomas C. Meyers      | 36,989              |
| John V. Bianco         | 36,748              | Joseph B. Milstein    | 42,897              |
| Isabelle A.S. Blundell | 43,321              | David G. Miranda      | 42,898              |
| Maureen A. Bresnahan   | 44,559              | Ronda P. Moore        | 44,244              |
| Michael H. Brodowski   | 41,640              | Indranil Mukerji      | P-46,944            |
| Jennifer A. Camacho    | 43,526              | Edmund R. Pitcher     | 27,829              |
| Joseph A. Capraro, Jr. | 36,471              | Dianne M. Rees        | 45,281              |
| John J. Cotter         | 38,116              | Michael A. Rodriguez  | 41,274              |
| John V. Forcier        | 42,545              | Jamie H. Rose         | 45,054              |
| Brian M. Gaff          | 44,691              | R. Stephen Rosenholm  | 45,283              |
| Michael J. Giannetta   | 42,574              | Christopher W. Stamos | 35,370              |
| Duncan A. Greenhalgh   | 38,678              | Joseph P. Sullivan    | 45,349              |
| William G. Guerin      | 41,047              | Robert J. Tosti       | 35,393              |
| Jonathan A. Harris     | 44,744              | Thomas A. Turano      | 35,722              |
| Ira V. Heffan          | 41,059              | Michael J. Twomey     | 38,349              |
| Danielle L. Herritt    | 43,670              | Christine C. Vito     | 39,061              |
| Mi Kim                 | 44,830              | Patrick R.H. Waller   | 41,418              |
| Douglas J. Kline       | 35,574              | Daniel A. Wilson      | 45,508              |
| John D. Lanza          | 40,060              | Yin P. Zhang          | 44,372              |
| Kurt W. Lockwood       | 40,704              |                       |                     |

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
125 High Street  
Boston, MA 02110  
Tel. No.: (617) 248-7000  
Fax No.: (617) 248-7100

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |      |   |       |    |                        |       |             |          |         |
|--|------|---|-------|----|------------------------|-------|-------------|----------|---------|
| Name of Sole or First Inventor:  |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor       |       |    |                        |       |             |          |         |
| Given Name (first and middle (if any))   |      |   |       |    | Family Name or Surname |       |             |          |         |
| Robert D.  |      |   |       |    | Rosenberg              |       |             |          |         |
| Inventor's Signature   |      |   |       |    |                        |       | Date        |          |         |
| Residence  | City | Boston  | State | MA | Country                | USA   | Citizenship | USA      |         |
| Post Office Address  |      | 28 Commonwealth Avenue, #3  |       |    |                        |       |             |          |         |
| P.O. Address (line 2)  | City | Boston  | State | MA | ZIP                    | 02116 | Country     | USA      |         |
| <input checked="" type="checkbox"/> Additional inventors are being named on the supplemental Additional Inventors sheet attached hereto. |      |   |       |    |                        |       |             |          |         |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor       |       |    |                        |       |             |          |         |
| Given Name (first and middle (if any))   |      |   |       |    | Family Name or Surname |       |             |          |         |
| Nicholas W.  |      |   |       |    | Shworak                |       |             |          |         |
| Inventor's Signature   |      |   |       |    |                        |       | Date        |          |         |
| Residence  | City | Westwood  | State | MA | Country                | USA   | Citizenship | Canadian |         |
| Post Office Address  |      | 9 Wicklow Drive   |       |    |                        |       |             |          |         |
| P.O. Address (line 2)  | City | Westwood  | State | MA | ZIP                    | 02090 | Country     | Canadian |         |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor       |       |    |                        |       |             |          |         |
| Given Name (first and middle (if any))   |      |   |       |    | Family Name or Surname |       |             |          |         |
| Jian   |      |   |       |    | Liu                    |       |             |          |         |
| Inventor's Signature   |      |  |       |    |                        |       | Date        |          | 8/23/00 |
| Residence  | City | Chapel Hill   | State | NC | Country                | USA   | Citizenship | China    |         |
| Post Office Address  |      | 106 Ivy Brook Lane  |       |    |                        |       |             |          |         |
| P.O. Address (line 2)  | City | Chapel Hill   | State | NC | ZIP                    | 27516 | Country     | USA      |         |

Additional Inventors for "HEPARAN SULFATE D-GLUCOSAMINYL 3-0-SULFOTRANSFERASES,  
AND USES THEREFOR"

|   |   |
|---|---|
| <b>DECLARATION AND<br/> POWER OF ATTORNEY FOR UTILITY<br/> OR DESIGN PATENT APPLICATION</b> | <b>ADDITIONAL INVENTOR(S)</b><br><b>Supplemental Sheet</b><br>Page <u>1</u> of <u>1</u> |
|---|---|

|  |      |   |       |                        |         |       |             |
|--|------|---|-------|------------------------|---------|-------|-------------|
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |
| Given Name (first and middle [if any])     |      |   |       | Family Name or Surname |         |       |             |
| Linda M.S.                                 |      |   |       | Fritze                 |         |       |             |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |
| Residence                                  | City | Sharon  | State | MA                     | Country | USA   | Citizenship |
| Post Office Address                        |      | 15 Falcon Road  |       |                        |         |       |             |
| P.O. Address (line 2)                      | City | Sharon  | State | MA                     | ZIP     | 02067 | Country     |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |
| Given Name (first and middle [if any])     |      |   |       | Family Name or Surname |         |       |             |
| John J.                                    |      |   |       | Schwartz               |         |       |             |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |
| Residence                                  | City | Newtonville   | State | MA                     | Country | USA   | Citizenship |
| Post Office Address                        |      | 200 Upland Road   |       |                        |         |       |             |
| P.O. Address (line 2)                      | City | Newtonville   | State | MA                     | ZIP     | 02460 | Country     |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |
| Given Name (first and middle [if any])     |      |   |       | Family Name or Surname |         |       |             |
| Lijuan                                     |      |   |       | Zhang                  |         |       |             |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |
| Residence                                  | City | Winthrop  | State | MA                     | Country | USA   | Citizenship |
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| P.O. Address (line 2)                      | City | Winthrop  | State | MA                     | ZIP     | 02152 | Country     |

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|   |                           |                     |
|---|---------------------------|---------------------|
| <b>DECLARATION AND POWER<br/>OF ATTORNEY FOR UTILITY<br/>OR DESIGN<br/>PATENT APPLICATION</b><br><br><input type="checkbox"/> Declaration <input checked="" type="checkbox"/> Declaration<br>Submitted with      Submitted after Initial<br>Initial Filing      Filing (surcharge<br>37 CFR 1.16(e) required) | Attorney Docket No.       | MIT-087             |
|   | First Named Inventor      | Robert D. Rosenberg |
|   | <b>COMPLETE IF KNOWN</b>  |                     |
|   | Application Serial Number | 09/557,262          |
|   | Filing Date               | April 24, 2000      |
|   | Group Art Unit            | Not yet assigned    |
| Examiner Name   | Not yet assigned          |                     |

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(Title of the Invention)

the specification of which

☐ is attached hereto

OR

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Application Number 09/557,262 and was amended on (MM/DD/YYYY) (if applicable).

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| Prior Foreign Application Number | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached? |                          |
|----------------------------------|---------|----------------------------------|--------------------------|--------------------------|--------------------------|
|                                  |         |                                  |                          | YES                      | NO                       |
| PCT/US98/22597                   | WO      | 10/23/1998                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                  |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                  |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                  |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(c) of any United States provisional application(s) listed below.

| Application Serial Numbers | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto. |
|----------------------------|--------------------------|--|
| 60/062,762                 | 10/24/1997               |  |
| 60/065,437                 | 10/31/1997               |  |



| <b>DECLARATION – Utility or Design Patent Application</b>   |                                    |  |                     |
|---|------------------------------------|--|---------------------|
| I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. |                                    |  |                     |
| U.S. Parent Application or PCT Parent<br>Serial Number  | Parent Filing Date<br>(MM/DD/YYYY) | Parent Patent Number<br>(if applicable)  |                     |
|   |                                    |  |                     |
| <input type="checkbox"/> Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.   |                                    |  |                     |
| As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:   |                                    |  |                     |
| <input type="checkbox"/> Customer Number  |                                    | <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div> | →                   |
| OR  |                                    | <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div> |                     |
| <input checked="" type="checkbox"/> Registered practitioner(s) name/registration number listed below  |                                    |  |                     |
| Name  | Registration Number                | Name   | Registration Number |
| Steven M. Bauer   | 31,481                             | Thomas C. Meyers   | 36,989              |
| John V. Bianco  | 36,748                             | Joseph B. Milstein   | 42,897              |
| Isabelle A.S. Blundell  | 43,321                             | David G. Miranda   | 42,898              |
| Maureen A. Bresnahan  | 44,559                             | Ronda P. Moore   | 44,244              |
| Michael H. Brodowski  | 41,640                             | Indranil Mukerji   | P-46,944            |
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| Joseph A. Capraro, Jr.  | 36,471                             | Dianne M. Rees   | 45,281              |
| John J. Cotter  | 38,116                             | Michael A. Rodriguez   | 41,274              |
| John V. Forcier   | 42,545                             | Jamie H. Rose  | 45,054              |
| Brian M. Gaff   | 44,691                             | R. Stephen Rosenholm   | 45,283              |
| Michael J. Giannetta  | 42,574                             | Christopher W. Stamos  | 35,370              |
| Duncan A. Greenhalgh  | 38,678                             | Joseph P. Sullivan   | 45,349              |
| William G. Guerin   | 41,047                             | Robert J. Tosti  | 35,393              |
| Jonathan A. Harris  | 44,744                             | Thomas A. Turano   | 35,722              |
| Ira V. Heffan   | 41,059                             | Michael J. Twomey  | 38,349              |
| Danielle L. Herritt   | 43,670                             | Christine C. Vito  | 39,061              |
| Mi Kim  | 44,830                             | Patrick R.H. Waller  | 41,418              |
| Douglas J. Kline  | 35,574                             | Daniel A. Wilson   | 45,508              |
| John D. Lanza   | 40,060                             | Yin P. Zhang   | 44,372              |
| Kurt W. Lockwood  | 40,704                             |  |                     |
| <input type="checkbox"/> Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.   |                                    |  |                     |
| Direct all correspondence to:   |                                    |  |                     |
| <div style="text-align: right;"> Patent Administrator<br/> Testa, Hurwitz &amp; Thibault, LLP<br/> High Street Tower<br/> 125 High Street<br/> Boston, MA 02110<br/> Tel. No.: (617) 248-7000<br/> Fax No.: (617) 248-7100 </div>   |                                    |  |                     |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |      |   |       |                        |         |          |             |
|--|------|---|-------|------------------------|---------|----------|-------------|
| Name of Sole or First Inventor:  |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |          |             |
| Given Name (first and middle [if any])   |      |   |       | Family Name or Surname |         |          |             |
| Robert D.  |      |   |       | Rosenberg              |         |          |             |
| Inventor's Signature   |      |   |       |                        |         | Date     |             |
| Residence  | City | Boston  | State | MA                     | Country | USA      | Citizenship |
| Post Office Address  |      | 28 Commonwealth Avenue, #3  |       |                        |         |          |             |
| P.O. Address (line 2)  | City | Boston  | State | MA                     | ZIP     | 02116    | Country     |
|  |      |   |       |                        |         | USA      |             |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 1 supplemental Additional Inventors sheet attached hereto. |      |   |       |                        |         |          |             |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |          |             |
| Given Name (first and middle [if any])   |      |   |       | Family Name or Surname |         |          |             |
| Nicholas W.  |      |   |       | Shworak                |         |          |             |
| Inventor's Signature   |      |   |       |                        |         | Date     |             |
| Residence  | City | Westwood  | State | MA                     | Country | USA      | Citizenship |
| Post Office Address  |      | 9 Wicklow Drive   |       |                        |         |          |             |
| P.O. Address (line 2)  | City | Westwood  | State | MA                     | ZIP     | 02090    | Country     |
|  |      |   |       |                        |         | Canadian |             |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |          |             |
| Given Name (first and middle [if any])   |      |   |       | Family Name or Surname |         |          |             |
| Jian   |      |   |       | Liu                    |         |          |             |
| Inventor's Signature   |      |   |       |                        |         | Date     |             |
| Residence  | City | Chapel Hill   | State | NC                     | Country | USA      | Citizenship |
| Post Office Address  |      | 106 Ivy Brook Lane  |       |                        |         |          |             |
| P.O. Address (line 2)  | City | Chapel Hill   | State | NC                     | ZIP     | 27516    | Country     |
|  |      |   |       |                        |         | USA      |             |

BRESNAHA5473/91.1011785-1

Additional Inventors for "HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES,  
AND USES THEREFOR"

|   |   |
|---|---|
| <b>DECLARATION AND<br/> POWER OF ATTORNEY FOR UTILITY<br/> OR DESIGN PATENT APPLICATION</b> | <b>ADDITIONAL INVENTOR(S)</b><br><b>Supplemental Sheet</b><br>Page 1 of 1 |
|---|---|

|   |                          |   |       |                        |         |       |             |     |
|---|--------------------------|---|-------|------------------------|---------|-------|-------------|-----|
| Name of Additional Joint Inventor, if any:    |                          | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle [if any])        |                          |   |       | Family Name or Surname |         |       |             |     |
| Linda M.S.                                    |                          |   |       | Fritze                 |         |       |             |     |
| Inventor's Signature                          | <i>Linda M.S. Fritze</i> |   |       |                        |         | Date  | 8/31/00     |     |
| Residence                                     | City                     | Sharon  | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address 15 Falcon Road            |                          |   |       |                        |         |       |             |     |
| P.O. Address (line 2)                         | City                     | Sharon  | State | MA                     | ZIP     | 02067 | Country     | USA |
| Name of Additional Joint Inventor, if any:    |                          | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle [if any])        |                          |   |       | Family Name or Surname |         |       |             |     |
| John J.                                       |                          |   |       | Schwartz               |         |       |             |     |
| Inventor's Signature                          |                          |   |       |                        |         | Date  |             |     |
| Residence                                     | City                     | Newtonville   | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address 200 Upland Road           |                          |   |       |                        |         |       |             |     |
| P.O. Address (line 2)                         | City                     | Newtonville   | State | MA                     | ZIP     | 02460 | Country     | USA |
| Name of Additional Joint Inventor, if any:    |                          | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle [if any])        |                          |   |       | Family Name or Surname |         |       |             |     |
| Lijuan  |                          |   |       | Zhang                  |         |       |             |     |
| Inventor's Signature                          |                          |   |       |                        |         | Date  |             |     |
| Residence                                     | City                     | Winthrop  | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address 900 Governor's Drive, #25 |                          |   |       |                        |         |       |             |     |
| P.O. Address (line 2)                         | City                     | Winthrop  | State | MA                     | ZIP     | 02152 | Country     | USA |

BRESNAHAS473/91.1011785-1





|   |                           |                     |
|---|---------------------------|---------------------|
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|   | First Named Inventor      | Robert D. Rosenberg |
|   | <b>COMPLETE IF KNOWN</b>  |                     |
|   | Application Serial Number | 09/557,262          |
|   | Filing Date               | April 24, 2000      |
|   | Group Art Unit            | Not yet assigned    |
|   | Examiner Name             | Not yet assigned    |

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My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES, AND USES THEREFOR

*(Title of the Invention)*

the specification of which

☐ is attached hereto

OR

☒ was filed on (04/24/2000) as United States Application Serial Number  
 Application Number 09/557,262 and was amended on (MM/DD/YYYY)                      (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached? |                          |
|----------------------------------|---------|----------------------------------|--------------------------|--------------------------|--------------------------|
|                                  |         |                                  |                          | YES                      | NO                       |
| PCT/US98/22597                   | WO      | 10/23/1998                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                  |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                  |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                  |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Serial Numbers | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application serial numbers are listed on a supplemental priority data sheet attached hereto. |
|----------------------------|--------------------------|--|
| 60/062,762                 | 10/24/1997               |  |
| 60/065,437                 | 10/31/1997               |  |

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09/557,262

Page 2 of 4

## DECLARATION – Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application or PCT Parent<br>Serial Number | Parent Filing Date<br>(MM/DD/YYYY) | Parent Patent Number<br>(if applicable) |
|--|------------------------------------|---|
|  |                                    |   |

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☐ Customer Number  → 

Place Customer  
Number Bar Code  
Label Here

OR

☒ Registered practitioner(s) name/registration number listed below

| Name                   | Registration<br>Number | Name                  | Registration<br>Number |
|------------------------|------------------------|-----------------------|------------------------|
| Steven M. Bauer        | 31,481                 | Thomas C. Meyers      | 36,989                 |
| John V. Bianco         | 36,748                 | Joseph B. Milstein    | 42,897                 |
| Isabelle A.S. Blundell | 43,321                 | David G. Miranda      | 42,898                 |
| Maureen A. Bresnahan   | 44,559                 | Ronda P. Moore        | 44,244                 |
| Michael H. Brodowski   | 41,640                 | Indranil Mukerji      | P-46,944               |
| Jennifer A. Camacho    | 43,526                 | Edmund R. Pitcher     | 27,829                 |
| Joseph A. Capraro, Jr. | 36,471                 | Dianne M. Rees        | 45,281                 |
| John J. Cotter         | 38,116                 | Michael A. Rodriguez  | 41,274                 |
| John V. Forcier        | 42,545                 | Jamie H. Rose         | 45,054                 |
| Brian M. Gaff          | 44,691                 | R. Stephen Rosenholm  | 45,283                 |
| Michael J. Giannetta   | 42,574                 | Christopher W. Stamos | 35,370                 |
| Duncan A. Greenhalgh   | 38,678                 | Joseph P. Sullivan    | 45,349                 |
| William G. Guerin      | 41,047                 | Robert J. Tosti       | 35,393                 |
| Jonathan A. Harris     | 44,744                 | Thomas A. Turano      | 35,722                 |
| Ira V. Heffan          | 41,059                 | Michael J. Twomey     | 38,349                 |
| Danielle L. Herritt    | 43,670                 | Christine C. Vito     | 39,061                 |
| Mi Kim                 | 44,830                 | Patrick R.H. Waller   | 41,418                 |
| Douglas J. Kline       | 35,574                 | Daniel A. Wilson      | 45,508                 |
| John D. Lanza          | 40,060                 | Yin P. Zhang          | 44,372                 |
| Kurt W. Lockwood       | 40,704                 |                       |                        |

☐ Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.

Direct all correspondence to:

Patent Administrator  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
125 High Street  
Boston, MA 02110  
Tel. No.: (617) 248-7000  
Fax No.: (617) 248-7100

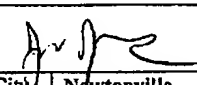
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |                            |   |       |                        |         |       |             |
|--|----------------------------|---|-------|------------------------|---------|-------|-------------|
| Name of Sole or First Inventor:  |                            | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |
| Given Name (first and middle (if any))   |                            |   |       | Family Name or Surname |         |       |             |
| Robert D.  |                            |   |       | Rosenberg              |         |       |             |
| Inventor's Signature   |                            |   |       |                        |         | Date  |             |
| Residence  | City                       | Boston  | State | MA                     | Country | USA   | Citizenship |
| Post Office Address  | 28 Commonwealth Avenue, #3 |   |       |                        |         |       |             |
| P.O. Address (line 2)  | City                       | Boston  | State | MA                     | ZIP     | 02116 | Country     |
| USA  |                            |   |       |                        |         |       |             |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 1 supplemental Additional Inventors sheet attached hereto. |                            |   |       |                        |         |       |             |
| Name of Additional Joint Inventor, if any:   |                            | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |
| Given Name (first and middle (if any))   |                            |   |       | Family Name or Surname |         |       |             |
| Nicholas W.  |                            |   |       | Shworak                |         |       |             |
| Inventor's Signature   |                            |   |       |                        |         | Date  |             |
| Residence  | City                       | Westwood  | State | MA                     | Country | USA   | Citizenship |
| Post Office Address  | 9 Wicklow Drive            |   |       |                        |         |       |             |
| P.O. Address (line 2)  | City                       | Westwood  | State | MA                     | ZIP     | 02090 | Country     |
| Canadian   |                            |   |       |                        |         |       |             |
| Name of Additional Joint Inventor, if any:   |                            | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |
| Given Name (first and middle (if any))   |                            |   |       | Family Name or Surname |         |       |             |
| Jian   |                            |   |       | Liu                    |         |       |             |
| Inventor's Signature   |                            |   |       |                        |         | Date  |             |
| Residence  | City                       | Chapel Hill   | State | NC                     | Country | USA   | Citizenship |
| Post Office Address  | 106 Ivy Brook Lane         |   |       |                        |         |       |             |
| P.O. Address (line 2)  | City                       | Chapel Hill   | State | NC                     | ZIP     | 27516 | Country     |
| USA  |                            |   |       |                        |         |       |             |

BRESNAHA5473/91.1011785-1

Additional Inventors for "HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES,  
AND USES THEREFOR"

|   |   |
|---|---|
| <b>DECLARATION AND<br/> POWER OF ATTORNEY FOR UTILITY<br/> OR DESIGN PATENT APPLICATION</b> | <b>ADDITIONAL INVENTOR(S)</b><br><b>Supplemental Sheet</b><br>Page <u>1</u> of <u>1</u> |
|---|---|

|  |  |   |  |             |  |                        |  |      |  |         |  |       |  |             |  |     |  |
|--|--|---|--|-------------|--|------------------------|--|------|--|---------|--|-------|--|-------------|--|-----|--|
| Name of Additional Joint Inventor, if any: |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor       |  |             |  |                        |  |      |  |         |  |       |  |             |  |     |  |
| Given Name (first and middle (if any))     |  |   |  |             |  | Family Name or Surname |  |      |  |         |  |       |  |             |  |     |  |
| Linda M.S.                                 |  |   |  |             |  | Fritze                 |  |      |  |         |  |       |  |             |  |     |  |
| Inventor's Signature                       |  |   |  |             |  |                        |  | Date |  |         |  |       |  |             |  |     |  |
| Residence                                  |  | City  |  | Sharon      |  | State                  |  | MA   |  | Country |  | USA   |  | Citizenship |  | USA |  |
| Post Office Address                        |  | 15 Falcon Road  |  |             |  |                        |  |      |  |         |  |       |  |             |  |     |  |
| P.O. Address (line 2)                      |  | City  |  | Sharon      |  | State                  |  | MA   |  | ZIP     |  | 02067 |  | Country     |  | USA |  |
| Name of Additional Joint Inventor, if any: |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor       |  |             |  |                        |  |      |  |         |  |       |  |             |  |     |  |
| Given Name (first and middle (if any))     |  |   |  |             |  | Family Name or Surname |  |      |  |         |  |       |  |             |  |     |  |
| John J.                                    |  |   |  |             |  | Schwartz               |  |      |  |         |  |       |  |             |  |     |  |
| Inventor's Signature                       |  |  |  |             |  |                        |  | Date |  |         |  |       |  |             |  |     |  |
| Residence                                  |  | City  |  | Newtonville |  | State                  |  | MA   |  | Country |  | USA   |  | Citizenship |  | USA |  |
| Post Office Address                        |  | 200 Upland Road   |  |             |  |                        |  |      |  |         |  |       |  |             |  |     |  |
| P.O. Address (line 2)                      |  | City  |  | Newtonville |  | State                  |  | MA   |  | ZIP     |  | 02460 |  | Country     |  | USA |  |
| Name of Additional Joint Inventor, if any: |  | <input type="checkbox"/> A petition has been filed for this unsigned inventor       |  |             |  |                        |  |      |  |         |  |       |  |             |  |     |  |
| Given Name (first and middle (if any))     |  |   |  |             |  | Family Name or Surname |  |      |  |         |  |       |  |             |  |     |  |
| Lijuan                                     |  |   |  |             |  | Zhang                  |  |      |  |         |  |       |  |             |  |     |  |
| Inventor's Signature                       |  |   |  |             |  |                        |  | Date |  |         |  |       |  |             |  |     |  |
| Residence                                  |  | City  |  | Winthrop    |  | State                  |  | MA   |  | Country |  | USA   |  | Citizenship |  | USA |  |
| Post Office Address                        |  | 900 Governor's Drive, #25   |  |             |  |                        |  |      |  |         |  |       |  |             |  |     |  |
| P.O. Address (line 2)                      |  | City  |  | Winthrop    |  | State                  |  | MA   |  | ZIP     |  | 02152 |  | Country     |  | USA |  |

BRESNAHAS473/91.1011785-1

**DECLARATION AND POWER  
OF ATTORNEY FOR UTILITY  
OR DESIGN**

**PATENT APPLICATION**

☐ Declaration      ☒ Declaration  
Submitted with      Submitted after Initial  
Initial Filing      Filing (surcharge  
37 CFR 1.16(e) required)

|                           |                     |
|---------------------------|---------------------|
| Attorney Docket No.       | MIT-087             |
| First Named Inventor      | Robert D. Rosenberg |
| <b>COMPLETE IF KNOWN</b>  |                     |
| Application Serial Number | 09/557,262          |
| Filing Date               | April 24, 2000      |
| Group Art Unit            | Not yet assigned    |
| Examiner Name             | Not yet assigned    |

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES, AND USES THEREFOR

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (04/24/2000) as United States Application Serial Number

Application Number 09/557,262 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application<br>Number | Country | Foreign Filing Date<br>(MM/DD/YYYY) | Priority<br>Not Claimed  | Certified Copy Attached? |                          |
|-------------------------------------|---------|-------------------------------------|--------------------------|--------------------------|--------------------------|
|                                     |         |                                     |                          | YES                      | NO                       |
| PCT/US98/22597                      | WO      | 10/23/1998                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

| Application Serial Numbers | Filing Date (MM/DD/YYYY) | <input type="checkbox"/> Additional provisional application<br>serial numbers are listed on a<br>supplemental priority data sheet<br>attached hereto. |
|----------------------------|--------------------------|---|
| 60/062,762                 | 10/24/1997               |   |
| 60/065,437                 | 10/31/1997               |   |



| <b>DECLARATION – Utility or Design Patent Application</b>   |                                    |  |                     |
|---|------------------------------------|--|---------------------|
| I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. |                                    |  |                     |
| U.S. Parent Application or PCT Parent<br>Serial Number  | Parent Filing Date<br>(MM/DD/YYYY) | Parent Patent Number<br>(if applicable)  |                     |
|   |                                    |  |                     |
| <input type="checkbox"/> Additional U.S. or PCT International application numbers are listed on a supplemental priority data sheet attached hereto.   |                                    |  |                     |
| As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:   |                                    |  |                     |
| <input type="checkbox"/> Customer Number  |                                    | <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div> | →                   |
| OR  |                                    | <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div> |                     |
| <input checked="" type="checkbox"/> Registered practitioner(s) name/registration number listed below  |                                    |  |                     |
| Name  | Registration Number                | Name   | Registration Number |
| Steven M. Bauer   | 31,481                             | Thomas C. Meyers   | 36,989              |
| John V. Bianco  | 36,748                             | Joseph B. Milstein   | 42,897              |
| Isabelle A.S. Blundell  | 43,321                             | David G. Miranda   | 42,898              |
| Maureen A. Bresnahan  | 44,559                             | Ronda P. Moore   | 44,244              |
| Michael H. Brodowski  | 41,640                             | Indranil Mukerji   | P-46,944            |
| Jennifer A. Camacho   | 43,526                             | Edmund R. Pitcher  | 27,829              |
| Joseph A. Capraro, Jr.  | 36,471                             | Dianne M. Rees   | 45,281              |
| John J. Cotter  | 38,116                             | Michael A. Rodriguez   | 41,274              |
| John V. Forcier   | 42,545                             | Jamie H. Rose  | 45,054              |
| Brian M. Gaff   | 44,691                             | R. Stephen Rosenholm   | 45,283              |
| Michael J. Giannetta  | 42,574                             | Christopher W. Stamos  | 35,370              |
| Duncan A. Greenhalgh  | 38,678                             | Joseph P. Sullivan   | 45,349              |
| William G. Guerin   | 41,047                             | Robert J. Tosti  | 35,393              |
| Jonathan A. Harris  | 44,744                             | Thomas A. Turano   | 35,722              |
| Ira V. Heffan   | 41,059                             | Michael J. Twomey  | 38,349              |
| Danielle L. Herritt   | 43,670                             | Christine C. Vito  | 39,061              |
| Mi Kim  | 44,830                             | Patrick R.H. Waller  | 41,418              |
| Douglas J. Kline  | 35,574                             | Daniel A. Wilson   | 45,508              |
| John D. Lanza   | 40,060                             | Yin P. Zhang   | 44,372              |
| Kurt W. Lockwood  | 40,704                             |  |                     |
| <input type="checkbox"/> Additional registered practitioners named on supplemental Registered Practitioner Information sheet attached hereto.   |                                    |  |                     |
| Direct all correspondence to:   |                                    |  |                     |
| Patent Administrator<br>Testa, Hurwitz & Thibault, LLP<br>High Street Tower<br>125 High Street<br>Boston, MA 02110<br>Tel. No.: (617) 248-7000<br>Fax No.: (617) 248-7100   |                                    |  |                     |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |      |   |       |    |                        |       |             |          |  |
|--|------|---|-------|----|------------------------|-------|-------------|----------|--|
| Name of Sole or First Inventor:  |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |    |                        |       |             |          |  |
| Given Name (first and middle (if any))   |      |   |       |    | Family Name or Surname |       |             |          |  |
| Robert D.  |      |   |       |    | Rosenberg              |       |             |          |  |
| Inventor's Signature   |      |   |       |    |                        |       | Date        |          |  |
| Residence  | City | Boston  | State | MA | Country                | USA   | Citizenship | USA      |  |
| Post Office Address  |      | 28 Commonwealth Avenue, #3  |       |    |                        |       |             |          |  |
| P.O. Address (line 2)  | City | Boston  | State | MA | ZIP                    | 02116 | Country     | USA      |  |
| <input checked="" type="checkbox"/> Additional inventors are being named on the 1 supplemental Additional Inventors sheet attached hereto. |      |   |       |    |                        |       |             |          |  |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |    |                        |       |             |          |  |
| Given Name (first and middle (if any))   |      |   |       |    | Family Name or Surname |       |             |          |  |
| Nicholas W.  |      |   |       |    | Shworak                |       |             |          |  |
| Inventor's Signature   |      |   |       |    |                        |       | Date        |          |  |
| Residence  | City | Westwood  | State | MA | Country                | USA   | Citizenship | Canadian |  |
| Post Office Address  |      | 9 Wicklow Drive   |       |    |                        |       |             |          |  |
| P.O. Address (line 2)  | City | Westwood  | State | MA | ZIP                    | 02090 | Country     | Canadian |  |
| Name of Additional Joint Inventor, if any:   |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |    |                        |       |             |          |  |
| Given Name (first and middle (if any))   |      |   |       |    | Family Name or Surname |       |             |          |  |
| Jian   |      |   |       |    | Liu                    |       |             |          |  |
| Inventor's Signature   |      |   |       |    |                        |       | Date        |          |  |
| Residence  | City | Chapel Hill   | State | NC | Country                | USA   | Citizenship | China    |  |
| Post Office Address  |      | 106 Ivy Brook Lane  |       |    |                        |       |             |          |  |
| P.O. Address (line 2)  | City | Chapel Hill   | State | NC | ZIP                    | 27516 | Country     | USA      |  |

BRESNAHAS473/91.1011785-1

Additional Inventors for "HEPARAN SULFATE D-GLUCOSAMINYL 3-O-SULFOTRANSFERASES,  
AND USES THEREFOR"

|  |   |
|--|---|
| DECLARATION AND<br>POWER OF ATTORNEY FOR UTILITY<br>OR DESIGN PATENT APPLICATION | ADDITIONAL INVENTOR(S)<br>Supplemental Sheet<br>Page 1 of 1 |
|--|---|

|  |      |   |       |                        |         |       |             |     |
|--|------|---|-------|------------------------|---------|-------|-------------|-----|
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle (if any))     |      |   |       | Family Name or Surname |         |       |             |     |
| Linda M.S.                                 |      |   |       | Fritze                 |         |       |             |     |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |     |
| Residence                                  | City | Sharon  | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address                        |      | 15 Falcon Road  |       |                        |         |       |             |     |
| P.O. Address (line 2)                      | City | Sharon  | State | MA                     | ZIP     | 02067 | Country     | USA |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle (if any))     |      |   |       | Family Name or Surname |         |       |             |     |
| John J.                                    |      |   |       | Schwartz               |         |       |             |     |
| Inventor's Signature                       |      |   |       |                        |         | Date  |             |     |
| Residence                                  | City | Newtonville   | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address                        |      | 200 Upland Road   |       |                        |         |       |             |     |
| P.O. Address (line 2)                      | City | Newtonville   | State | MA                     | ZIP     | 02460 | Country     | USA |
| Name of Additional Joint Inventor, if any: |      | <input type="checkbox"/> A petition has been filed for this unsigned inventor |       |                        |         |       |             |     |
| Given Name (first and middle (if any))     |      |   |       | Family Name or Surname |         |       |             |     |
| Lijuan                                     |      |   |       | Zhang                  |         |       |             |     |
| Inventor's Signature                       |      | <i>Lijuan Zhang</i>   |       |                        |         | Date  | 9/11/00     |     |
| Residence                                  | City | Winthrop  | State | MA                     | Country | USA   | Citizenship | USA |
| Post Office Address                        |      | 900 Governor's Drive, #25   |       |                        |         |       |             |     |
| P.O. Address (line 2)                      | City | Winthrop  | State | MA                     | ZIP     | 02152 | Country     | USA |

BRESNAHA5473/91.1011785-1

(only) — Lijuan Zhang — (only)  
Commonwealth of Massachusetts  
County of Middlesex  
Subscribed and sworn to before me  
this 11 day of September 2000

*Linda M. Mullaly*  
Notary Public  
My Commission Expires 1-15-04

LINDA M. MULLALY  
Notary Public  
My Commission Expires Jan. 15, 2004